

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	STORAGE GALLONS	ELECTRICAL DATA				TEMP SETTING	MANUFACTURER AND MODEL	REMARKS		
		DEG. RISE °C	KW	V	PH				HZ	
EMH-1	N/A	82 °	.75 GPM	9	277	1	60	120°F	MANUFACTURER PU I-E 3.0	INSTANTANEOUS WATER HEATER MOUNTED UNDER SINK

NOTES:

1. PRODUCTS AND MANUFACTURERS ARE OFFERED AS GUIDELINES FOR BASIS OF DESIGN.

PLUMBING FIXTURE SCHEDULE

IDENT	FIXTURE	TYPE	ROUGH-IN CONNECTIONS			COMPONENT	BASIS OF SELECTION
			WASTE	VENT	CM	HW	
L-1	LAVATORY (ADA COMPLIANT)	WALL MOUNTED	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD MODEL #914.10.11 VITREOUS CHINA, ADA COMPLIANT WITH OVERFLOW, FOR CONCEALED AIN SUPPORT, 4" FAUCET CENTERS AMERICAN STANDARD AMARUS HERITAGE #100.172H SOLID BRASS, POLISHED CHROME FINISH, ADA COMPLIANT W/STI BLADE HANDLES, GOSSENEX SPOUT MCQUIRE MODEL #2103-1X (PAIN)
							GRID DRAIN, PROVIDED WITH P-TAP LISTED BELOW
							MCQUIRE MODEL #P2A150MC, SEAMLESS PREHANGERPED ADJUSTABLE CAST BRASS P-TAP CUT WITH PREHANGERPED OFFSET AND DRAIN ZURN SERIES Z-1231 CONCEALED AINM CARRIER
WC-1	WATER CLOSET (ADA COMPLIANT)	FLOOR MOUNTED	4"	2"	1/4"	-	AMERICAN STANDARD MODEL #474M #2257.103 VITREOUS CHINA, WALL MOUNTED ELONGATED BOWL, LOW CONSUMPTION 1.6 gpf SLOAN ROYAL MODEL #111 LOW CONSUMPTION 1.6 gpf EXPOSED WATER CLOSET FLUSHOMETER, FOR WALL HUNG TOL SPUD BOWL SLOAN #65 OPERATOR SEAT, LESS COVER FOR ELONGATED BOWL WITH HUNG TOL ZURN SERIES Z-1203-NV4 COMMERCIAL CARRIER SYSTEM
WC-2	SECURITY COMBINATION FLOOR	FLOOR MOUNTED	3"	2"	1/4"	1/2"	WILLOUGHBY INDUSTRIES 386E-F4, SERIES COMBINATION SECURITY FIXTURE, FLOOR MOUNTED, BLACK OUTLET, 1/4 GUNDE STAINLESS STEEL, DUAL TEMP. PNEUMATIC SPRING, 1/2" FLUSH VALVE THROUGH WALL CONNECTION, OPTION "XT" FLUSH VALVE THROUGH WALL CONNECTION, SLOAN ROYAL PRISON MODEL #9603-1.6 HYDRAULICALLY OPERATED FLUSH VALVE, METAL BUTTON FIXTURE WALL ACTUATOR HY-100-A INTEGRAL TO FIXTURE, PROVIDE OPTION "HPS" HIGH POLISH SEAT. FIXTURE IS FLOOR MOUNTED

DRAIN SCHEDULE

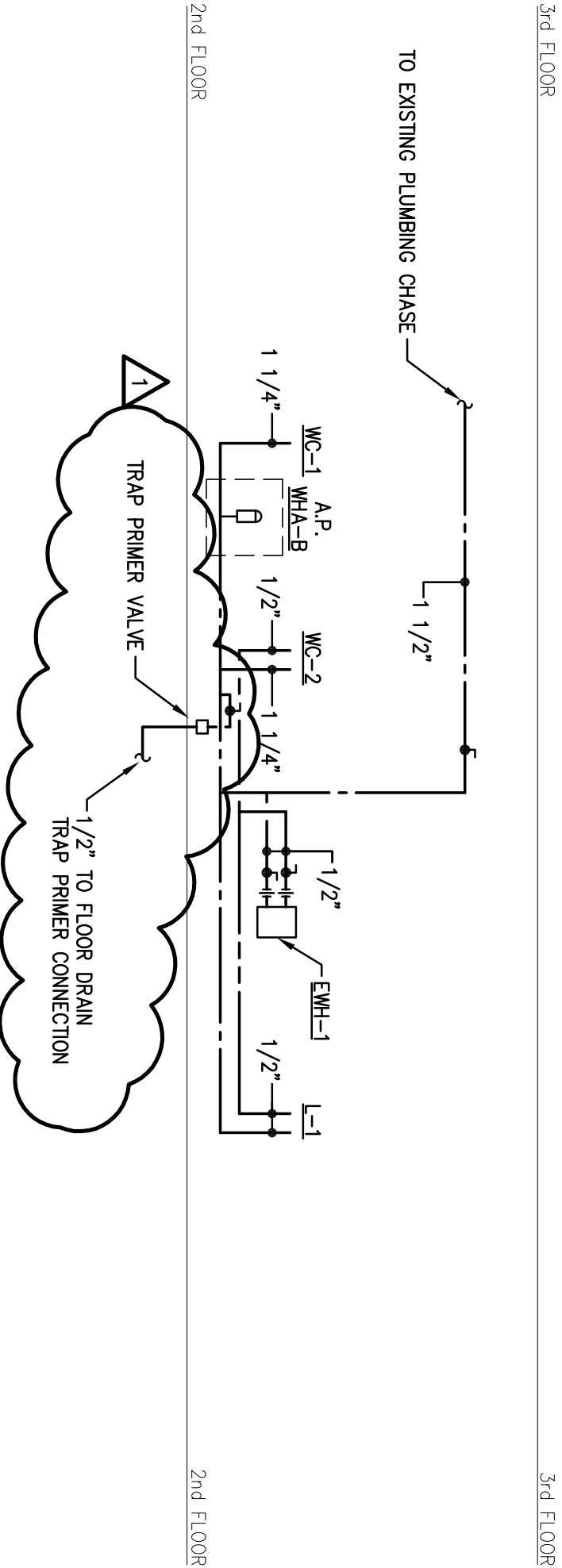
DRAIN SCHEDULE						
SYMBOL	TYPE	MFG#	MODEL	OUTLET	STRAINER	REMARKS
FD-1	FLOOR DRAIN	J.R. SMITH	2005-U	NO-HUB	NICKEL BRONZE	①

NOTES

- A. BEFORE SETTING DRAIN OBTAIN EXACT INFORMATION RELATIVE TO FINISH FLOOR LEVEL AT TOP OF DRAIN INSTALLATION.
- B. DRAIN SIZES ARE INDICATED ON THE DRAWINGS.
- C. PRODUCTS AND MANUFACTURERS ARE OFFERED AS GUIDELINES FOR BASIS OF DESIGN.

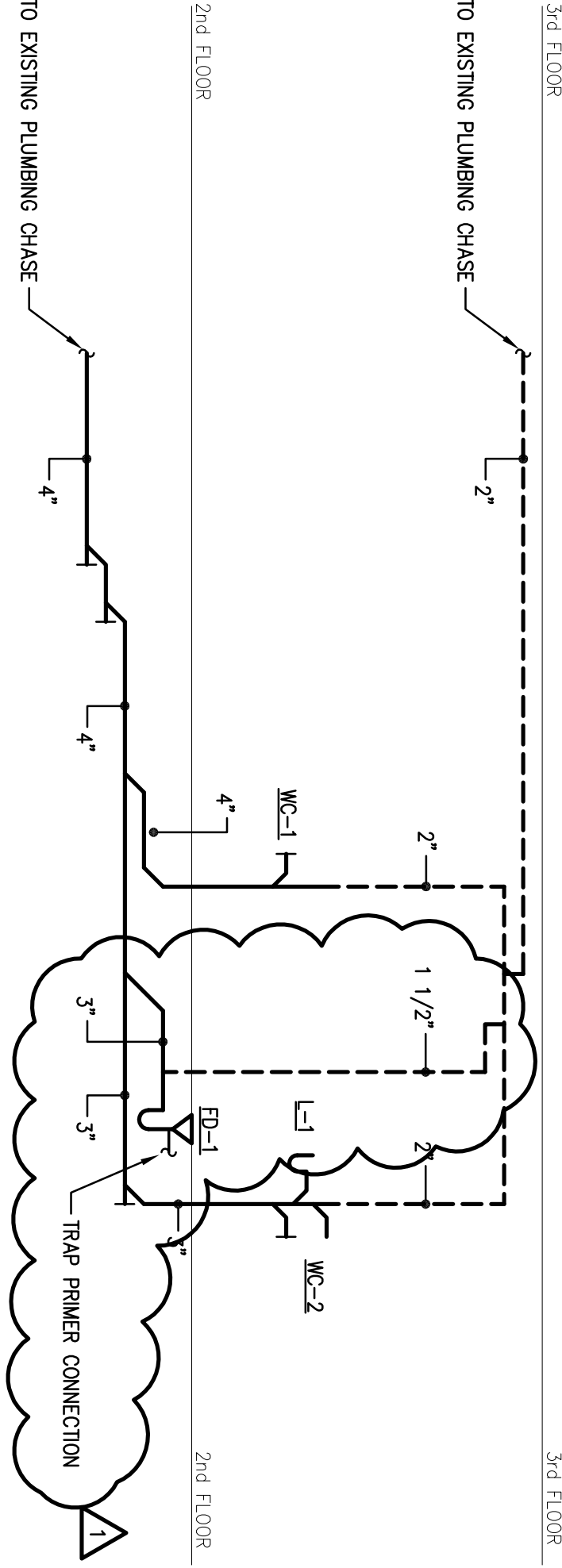
REMARKS

- ① PROVIDE P-TRAP w/TRAP PRIMER CONNECTION



WATER RISER DIAGRAM

P001 SCALE: NONE



SANITARY RISER DIAGRAM

P001 SCALE: NONE

PLUMBING LEGEND

S Y M B O L	D E S C R I P T I O N
- SAN -	SANITARY WASTE PIPING
----	SANITARY VENT PIPING
-----	COLD WATER PIPING
-----	HOT WATER PIPING
BPF	BACKFLOW PREVENTER
	POINT OF DEMOLITION
	CONNECT TO EXISTING
	FLOOR DRAIN
	F-FRAP
	FLOOR CLEANOUT
	PIPING TURNED UP
	PIPING TURNED DOWN
	CAPPED CONNECTION
	PIPING CONTINUATION
	GATE VALVE SHUTOFF
	BALL VALVE SHUTOFF
	CHECK VALVE
	GAS COOK
PRV	PRESSURE REGULATOR VALVE

FIRE PROTECTION GENERAL NOTES


1. FIRE PROTECTION WORK INDICATED ON THESE DRAWINGS MUST BE DONE AS A SEPARATE DISCHARGE FROM PLUMBING. CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION, NFPA STANDARDS, AND STATE BUILDING CODE AND ALL APPLICABLE LOCAL CODES (U/I) LABEL, ORDINANCES, AND ELEVATION SHALL BEAR AN UNDERWRITER'S LABORATORY (U/I) LABEL, AND FM APPROVAL.
2. FIRE PROTECTION, INCLUDING UNDER THE PERFORMANCE DRAWINGS AND SPECIFICATIONS, CONSIST OF MATERIALS, DESIGN, FURNISHING OF ALL LABOR, SUPPLIES, EQUIPMENT, AND MATERIALS AND ALL OPERATIONS REQUIRED FOR A COMPLETE FUNCTIONAL AND OPERATIONAL FIRE PROTECTION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, TESTING, INSPECTION, AND READY FOR OPERATION. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH HERSELF WITH ALL NECESSARY WORK REQUIRED TO PERFORM PROPERLY THE DESIGN INTENT OF THESE PERFORMANCE SPECIFICATIONS.
3. FIRE PROTECTION SHALL BE ACCORDING TO THE FOLLOWING:
4. IN ADDITIONAL, THE RAYS, SPRINKLERS SHALL BE LOCATED IN ALIGNMENT WITH ADJACENT LIGHT PATTERNS, IN LOCATIONS WITHOUT AN ADJACENT LIGHT EXPOSURE PATTERN, SPRINKLER SHALL BE CENTERED IN CEILING.
5. SYMMETRICAL PATTERNS COORDINATED WITH ALL CEILING ELEMENTS.
6. SYMMETRICAL PATTERNS COORDINATED WITH ALL CEILING ELEMENTS.
7. STANDARD SHALL OBTAIN FIRE PROOFING TEST DATA WHICH HAS BEEN CONDUCTED WITHIN THE LAST 6 MONTHS.
8. COORDINATE DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEM, DO NOT INSTALL PLUMBING BEFORE AIR HANDLING DEVICES OR THAT INTERFERE WITH ANY TYPE OF ACCESS.
9. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE NEW CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.
10. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE NEW CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.
11. DOWN OF THE EXISTING SYSTEM SHALL BE THE BUILDING ENGINEER, PRIOR TO ANY SHUT DOWN OF THE EXISTING SYSTEM.
12. THE SPRAY PATTERN OF ANY SPRINKLER SHALL NOT BE BLOCKED BY WALL, PARTITIONS OR STRUCTURAL COMPONENTS.
13. THE SPRAY PATTERN OF ANY SPRINKLER SHALL NOT BE BLOCKED BY WALL, PARTITIONS OR STRUCTURAL COMPONENTS.
14. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE SET OF INSTALLATION DRAWINGS WHICH BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE CONTRACT DRAWINGS ARE NOT INTENDED TO BE DESIGN/SHOP DRAWINGS, SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. ALL DRAWINGS SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. ONLY THE COMPLETE DESIGN, COORDINATION WITH ALL TRADES AND BUILDING STRUCTURE, AND INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.
15. THE CONTRACT DRAWINGS ARE NOT INTENDED TO BE DESIGN/SHOP DRAWINGS, SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. ALL DRAWINGS SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. ONLY THE COMPLETE DESIGN, COORDINATION WITH ALL TRADES AND BUILDING STRUCTURE, AND INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.
16. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL IN COMPLETE WITH ALL ACCESSORIES, TESTS AND ADJUST AS NECESSARY, THE WORD "TYPING" MEANS PIPE, FITTINGS CONTROLS AND HANGERS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM AS REQUIRED BY CODE.
17. ALL SPRINKLER PIPING AND FITTINGS SHALL BE INSTALLED ABSOLUTELY RUST-FREE & PERFORMANCE REQUIREMENTS.
18. A STANDARD PIPING SYSTEM COMPONENT WORKING PRESSURE: LISTED FOR AT LEAST 175 PSI.
19. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, TESTING, INSPECTION, AND READY FOR OPERATION. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH HERSELF WITH ALL NECESSARY WORK REQUIRED TO PERFORM PROPERLY THE DESIGN INTENT OF THESE PERFORMANCE SPECIFICATIONS.
20. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, TESTING, INSPECTION, AND READY FOR OPERATION. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH HERSELF WITH ALL NECESSARY WORK REQUIRED TO PERFORM PROPERLY THE DESIGN INTENT OF THESE PERFORMANCE SPECIFICATIONS.
21. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, TESTING, INSPECTION, AND READY FOR OPERATION. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH HERSELF WITH ALL NECESSARY WORK REQUIRED TO PERFORM PROPERLY THE DESIGN INTENT OF THESE PERFORMANCE SPECIFICATIONS.

PLUMBING GENERAL NOTES

1. GENERAL NOTES, SYMBOLS, LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS COMPARED TO THIS SET OF DRAWINGS.
2. DRAWINGS ARE PARAGRAPHED, DETERMINE EXACT LOCATIONS OF SYSTEMS AND MARKED IN FIELD.
3. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE PERPENDICULAR.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE STATEWIDE PLUMBING CODE AND LOCAL SUPPLEMENTS. ALL WORK SHALL BE EQUAL OR SUPERIOR TO THAT REQUIRED BY RULES, CODES, ORDERS, REGULATIONS AND LAWS IMPOSED BY AUTHORITY HAVING JURISDICTION.
5. THE SELECTION OF THE PIPE, FITTINGS, JOINTS, VALVES, EQUIPMENT AND PERFORMANCE OF THE OPERATIONS REQUIRED TO COMPLETE A FUNCTIONAL AND OPERATIONAL PLUMBING SYSTEM.
6. THE CONTRACTOR SHALL MAKE CONNECTIONS TO ALL PLUMBING EQUIPMENT AND FIXTURES BY OTHERS OR SPECIFIED ON THE DRAWINGS.
7. NO PLUMBING FIXTURE, DEVICE OR PIPING SHALL BE INSTALLED THAT WILL PROVIDE A CROSS CONNECTION OR INTERCONNECTION BETWEEN A DISTRIBUTING WATER SUPPLY FOR PLUMBING PURPOSES AND SOIL WATER PIPE, SO AS TO MAKE POSSIBLE THE BACKFLOW OF SEWAGE, POLLUTED WATER OR WASTE INTO THE WATER SUPPLY SYSTEM.
8. TRANSITIONS FITTINGS OR DISJUNCTIVE PIPE MATERIALS, WHERE CALICULI CORROSION COULD OCCUR, SHALL BE NON-CORRODIBLE TYPE COMPLYING WITH LOCAL AND STATE PLUMBING CODES.
9. INSTALLATION OF ALL PIPING SHALL BE DONE WITH EXTREME CARE TO ENSURE CLEAN, PREPARED, FREE OF SCALE, RUST, MUD, SHAVINGS, WELD SPATTER OR BRUISES, SLOD, DIRT, OIL, GREASE, AND OTHER CONTAMINANTS. ALL PIPING SHALL BE INSTALLED WITH THE SEWAGE AT THE END OF THE DAY TO KEEP OUT DEBRIS UNTIL WORK IS RESUMED.
10. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, HVAC, PROCESSING PLANT, SPRINKLER, STRUCTURAL AND GENERAL ARCHITECTURE.
11. REPRESENTATIVE SHALL BE RESPONSIBLE FOR PROVIDING THE INSTALLATION OF THE WORK.
12. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE BEGINNING OF THE WORK.
13. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHERPROOF. PIPING PENETRATING ROOFS SHALL BE FLASHED AND SEALED IN ACCORDANCE WITH THE REQUIREMENTS REQUIRED BY LOCAL CODE. AUTHORITY.
14. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
15. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
16. PROVIDE ACCESS PANELS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE 17 TYPES OF ALL FLOOR GRABS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING STRUCTURE OR COMPONENTS.
17. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLUMBING CODE, LOCAL ORDINANCES AND STANDARDS.
18. ALL PIPING SHALL BE INSTALLED IN HVAC PLenum SPACES TO MAINTAIN THE PLenum PRESSURE AND CONSISTENCY.
19. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE FATH VALVES ON ALL WATER MAIN BRANCHES IN THE BUILDING.
20. PROVIDE ACCESS PANELS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE 21. PROVIDE ACCESS PANELS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE 22. PROVIDE PRESSURE, HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS 23. REFER TO EXACT SIZES, LOCATIONS, INSERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. 24. VERIFY THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
25. INSTALLATION SHALL MEET MANUFACTURERS' RECOMMENDATIONS. NO INSULATION SHALL BE APPLIED UNTIL PIPING HAS PASSED TEST AS REQUIRED BY AUTHORITIES THAT HAVE JURISDICTION. INSULATION JOINTS AND ADHESIVES SHALL BE FLAME RETARDANT AND RESISTANT TO OIL, GREASE, ACID, ALKALI, AND WEATHERING.
26. INSULATION SHALL BE APPLIED TO ALL PIPING, EXCEPT FOR CONDENSATE PIPING, DETECTED AND SO FORTH. CONTRIBUTED. INSULATE ALL C/W, H/W AND CONDENSATE PIPING. 27. THE CONTRACTOR MUST COORDINATE WITH THE BUILDING ENGINEER, PRIOR TO ANY SHUT DOWN OF THE EXISTING SYSTEM.

LIST OF PLUMBING DRAWINGS

DWG. No.	DRAWING TITLE
P001	PLUMBING COVER SHEET
P202	PLUMBING SECOND FLOOR PLAN

Loc.	Description	Date	App.
	50% OWNER REVIEW SET	05.12.06	
	PERMIT WALKTHROUGH	08.29.06	
	90% OWNER REVIEW SET	09.08.06	
	ISSUED FOR PERMIT AND CONSTRUCTION	10.20.06	
	ISSUED FOR BID	12.13.06	
	ADDENDUM 2 	1.29.07	

Pfj. Arch. LITTLE	
Pfj. Eng. VANDERWEL ENGINEERS, LLP	
Drawn SNC	Scale NONE
Checked BAA	Issued 10.20.06
App. xxx	


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Project Title: LOUDOUN COUNTY COURTHOUSE
2ND FL. COURTROOMS BUILDING
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County Building No.: 5003

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**PLUMBING COVER
SHEET**

Drawing No.: